

# Appendix D

## Representative Wave Plots<sup>1</sup>

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This appendix includes plots of the transformation of representative waves calculated by the STWAVE model as described in Chapter 5. Fifteen waves were transformed for channel Alternatives 1 (existing condition), 3A, 3B, 4A, and 3H. The plots for each alternative appear on a single page with wave heights in the top plot and wave directions in the bottom plot. For each plot, the 15 incident wave conditions are listed across the bottom. Across the top of the plot are bars giving the probability of occurrence (reference to the right-hand scale). For each wave condition, nine bars represent three locations in the channel (outer, middle, and inner) and three typical tides/currents (mean low water (mlw)/ebb, mean sea level (msl)/slack, and mean high water (mhw)/flood). The channel alignments are plotted as horizontal lines for reference.

For Alternatives 1 and 3A, the outer channel and midchannel alignment is approximately 305 deg and the inner channel alignment is 270 deg. For Alternative 4A, the channel is straight with an alignment of 270 deg throughout the channel. The channel alignment for Alternative 3B is sinuous. The alignment is approximately 300 deg in the outer channel, 270 deg in the midchannel, and 230 deg in the inner channel. The channel alignment for Alternative 3H is 281 deg.

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